

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNALS (CPS) FOR ALL LEGS OF THE INTERSECTION OF MD 157 (MERRITT BOULEVARD) AND HOLABIRD AVENUE/WISE AVENUE IN BALTIMORE COUNTY. MD 157 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULLY TRAFFIC-ACTUATED MODE. MAINLINE AND SIDE STREET ALTERNATIVE PEDESTRIAN PHASES ARE PROPOSED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS MERRITT BOULEVARD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS MERRITT AT HOLABIRD AND WISE, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS HOLABIRD AVENUE

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS HOLABIRD AT MERRITT, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS WISE AVENUE

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS WISE AT MERRITT, CROSSWALK ANGLES RIGHT, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Ms. Erin Kuhn  
Assistant District Engineer - Traffic  
Phone: 410-229-2381

Mr. Michael Pasquariello  
District Utility Engineer  
Phone: 410-229-2421

Mr. Andre Futrell  
Assistant District Engineer - Maintenance  
Phone: 410-229-2361

OFFICE OF TRAFFIC AND SAFETY:

Ms. Corren Johnson  
Chief, Traffic Operations Division  
Phone: 410-787-7630

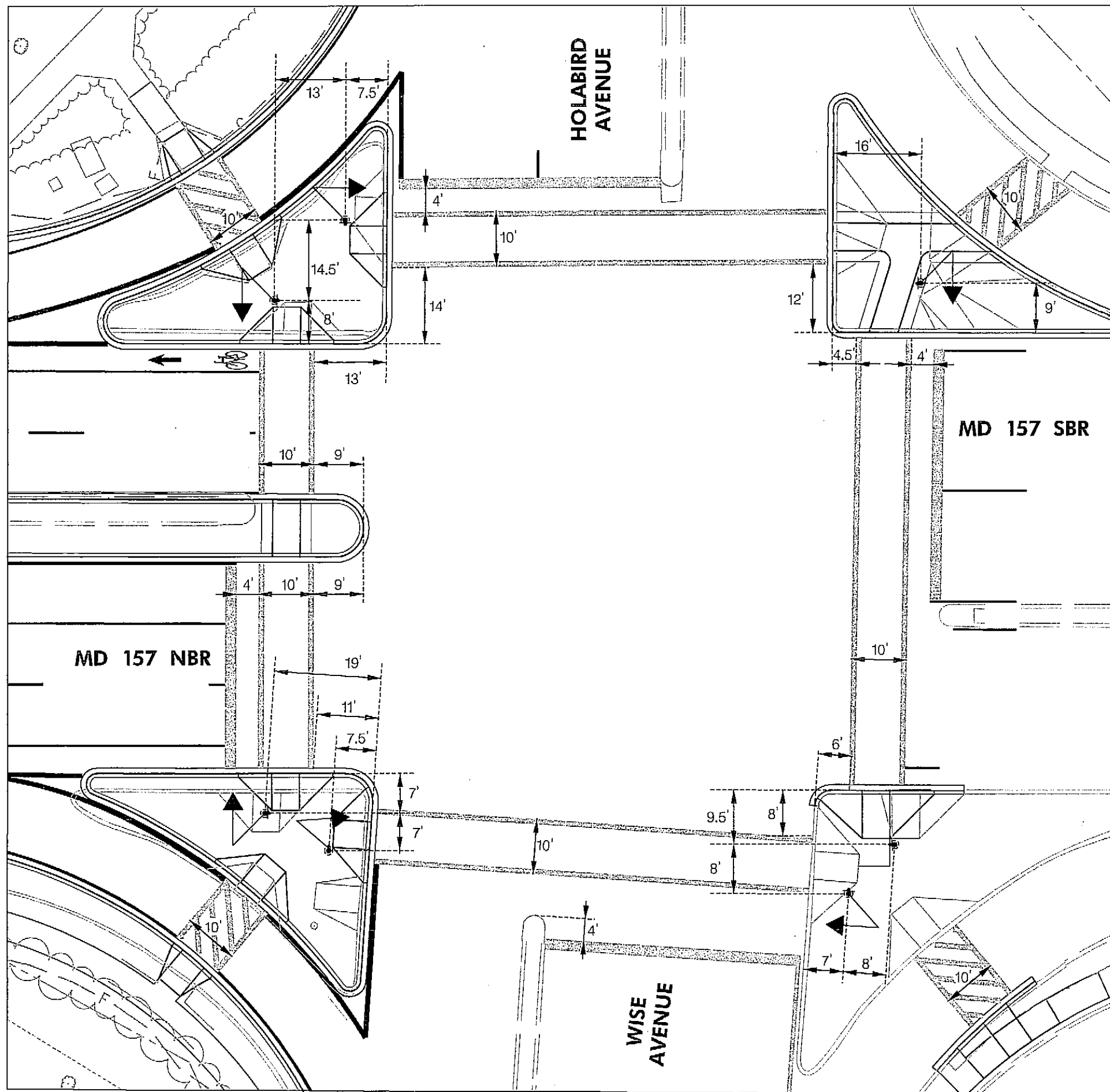
Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Chief Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Chief Sign Operations  
410-787-7670

The Power Company Inc.  
BG&E CO.  
7317 Parkway Dr. South  
Hanover, MD  
Phone: 410-859-9062

PROPOSED SIGNAL EQUIPMENT AND PAVEMENT MARKING LAYOUT - 1"=20'



PHASE CHART

	1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
PHASE 1 AND 5	←G	←G	R	R	←G	←G	←G	R	R	←R	←R	←R	R	R	←R	←R	←R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6	←G	←G	G	G	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 1 CHANGE	←Y	←Y	G	G	←R	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 AND 5	←R	←R	R	R	←G	←G	←G	G	G	←R	←R	←R	R	R	←R	←R	←R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 5 CHANGE	←R	←R	R	R	←Y	←Y	←Y	G	G	←R	←R	←R	R	R	←R	←R	←R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 AND 6	←R	←R	G	G	←R	←R	←R	G	G	←R	←R	←R	R	R	←R	←R	←R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	←R	←R	G	G	←R	←R	←R	G	G	←R	←R	←R	R	R	←R	←R	←R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW	DW	DW
PHASE 2 AND 6 CHANGE	←R	←R	Y	Y	←R	←R	←R	Y	Y	←R	←R	←R	R	R	←R	←R	←R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	←R	←R	R	R	←R	←R	←R	R	R	←G	←G	←G	R	R	←G	←G	←G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	R	R	←G	←G	←G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 8	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	R	R	←G	←G	←G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	R	R	←Y	←Y	←Y	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	←R	←R	R	R	←R	←R	←R	R	R	←G	←G	←G	G	G	←R	←R	←R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 7 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	←Y	←Y	←Y	G	G	←R	←R	←R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	G	G	←R	←R	←R	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	Y	Y	←R	←R	←R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT.	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	G	G	←R	←R	←R	G	G	DW	DW	DW	WK	WK	WK	WK	WK
PED CLEARANCE	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	G	G	←R	←R	←R	G	G	DW	DW	DW	FLDW	FLDW	FLDW	FLDW	FLDW
PHASE 4 AND 8 ALT. CHANGE	←R	←R	R	R	←R	←R	←R	R	R	←R	←R	←R	Y	Y	←R	←R	←R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/RA/FL/RA	FLY	FLY	FLY	FL/RA/FL/RA/FL/RA	FLY	FLY	FLY	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	FL/RA/FL/RA/FL/RA	DARK	DARK	DARK	DARK	DARK	DARK	DARK

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
973023	8 SF	SHEET ALUMINUM SIGNS
	4 EA	- R10-3(1) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS MERRITT BLVD"
	2 EA	- R10-3(1) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS HOLABIRD AVE"
	2 EA	- R10-3(1) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS WISE AVE"

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	5 CY	TEST PIT EXCAVATION
585621	1,000 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585625	100 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585700	650 LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
800000	8 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	69 SF	RELOCATE EXISTING OVERHEAD SIGN
800000	1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
800000	1 LS	REMOVE AND DISPOSE EXISTING EQUIPMENT
800000	1 EA	2 WIRE CENTRAL CONTROL UNIT
800000	8 EA	16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
802145	5 EA	ADJUST EXISTING HANDHOLE
802501	100 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	100 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
813015	8 SF	INSTALL OVERHEAD SIGN
818004	7 EA	10 FOOT BREAKAWAY PEDESTAL POLE
860265	13 EA	RELOCATE EXISTING SIGNAL HEAD
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	1,300 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1,310 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

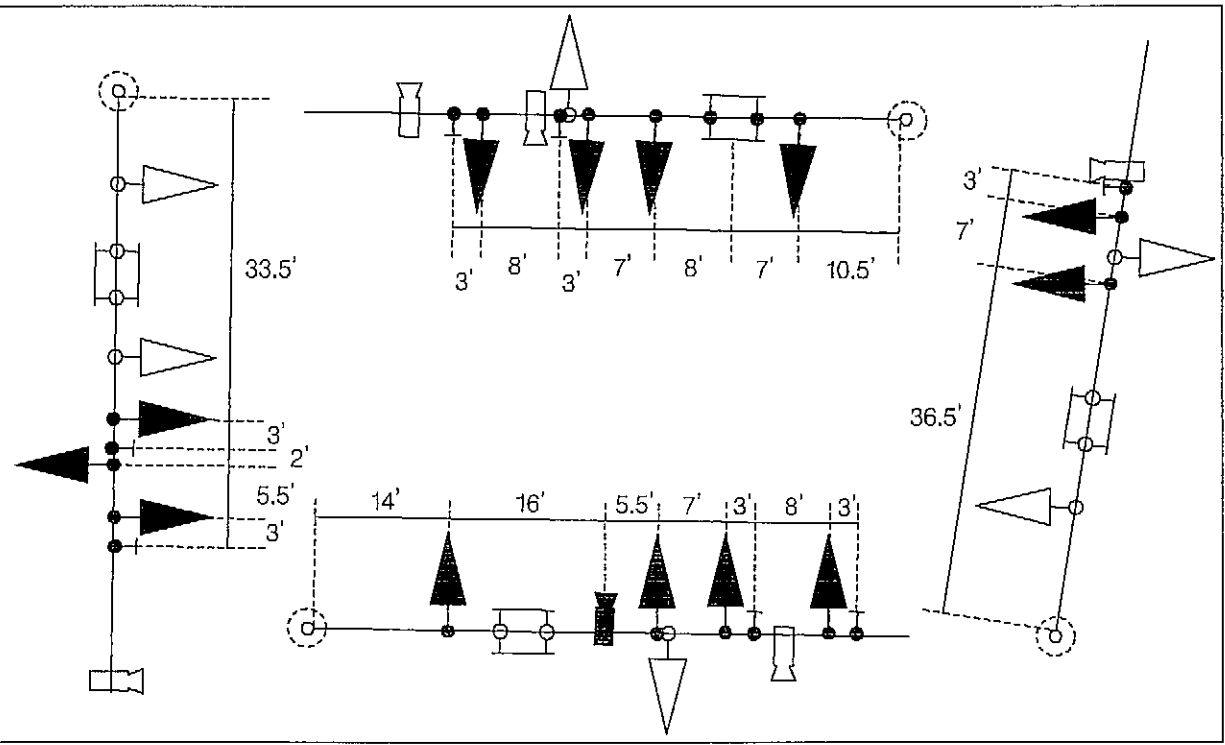
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PROPOSED MAST ARM DETAIL - 1"=20'



**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 157 (MERRITT BOULEVARD)  
AND HOLABIRD AVENUEWISE AVENUE  
DUNDALK, MARYLAND

**GENERAL INFORMATION SHEET**  
SCALE NONE ADVERTISED DATE 03/2013 CONTRACT NO. BA3325177  
DESIGNED BY KXT COUNTY BALTIMORE  
DRAWN BY KXT LOGMILE 03015703.49  
CHECKED BY SDY TMS NO. L069  
F.A.P. NO. TOD NO.  
TS NO. 466B-GI DRAWING SG-08 OF 08 SHEET NO. 73 OF 100

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